QC ABSTRACT

NAME OF WORK: Improvements and Maintenance of Parks in HMT Layout 5th Block in Ward no 09 (Vidyaranyapura)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	RCC(M20)	Compressive Strength(7days and 28days)	4 sets /30-50 cum	48.92	8	8
6	Chain Link Fencing	Average Thickness	One Test		1	1
		Dia of line wire	One Test		1	1
		Mesh size	One Test		1	1
		Nominal dia of mesh wire	One Test		1	1
		Bend Test	One Test		1	1
7	M.S Block Pipe	Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
8	M.S. Rectangular pole	Weight/Meter	One Test		1	1
		Yeild stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1

Format No: CP/TF:01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-03-27-27** **Date: 30-05-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP,
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Maintenance of Parks in HMT Layout 5th Block in Ward no 09 (Vidyaranyapura)
Agency	:	Sri. Madhusudhan.R, #830, 5th Block, BEL Layout, Vidyaranyapura, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/167/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-05-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification., IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	28-05-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.22	-
2	Finess by Air permeablity method (m^2/kg,Min)	289.5	225m^2/kg, Min
3	Density (gm/cc)	3.11	-
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-03-27-27** **Date: 30-05-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Maintenance of Parks in HMT Layout 5th Block in Ward no 09 (Vidyaranyapura)
Agency	:	Sri. Madhusudhan.R, #830, 5th Block, BEL Layout, Vidyaranyapura, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/167/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	27-05-22
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-05-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	242	242	1.6	98.4	90-100
3	20 mm	7152	7394	49.3	50.7	30-70
4	10 mm	3885	11279	75.2	24.8	10-35
5	4.75 mm	3205	14484	96.6	3.4	0-5
6	Pan	516	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-03-27-27** **Date: 30-05-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.63	_
4	Bulk Density(Loose) (Kg/l)	1.43	_
5	Bulk Density(Compacted) (Kg/l)	1.48	_
6	Water Absorption(%)	0.18	_

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-03-27-27** **Date: 30-05-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Maintenance of Parks in HMT Layout 5th Block in Ward no 09 (Vidyaranyapura)
Agency	:	Sri. Madhusudhan.R, #830, 5th Block, BEL Layout, Vidyaranyapura, Bangalore-97
Customer Reference	:	BBMP/EE/BTP/WO/167/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-05-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-05-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	272	272	5.4	94.6	90-100
3	10 mm	2758	3030	60.6	39.4	25-55
4	4.75 mm	1759	4789	95.8	4.2	0-10
5	Pan	211	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-03-27-27** **Date: 30-05-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	9.6	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.45	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	22.2	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.9	30% for Aggregates to be used in concrete for wearing Surface. 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-03-27-27** **Date: 30-05-22**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements and Maintenance of Parks in HMT Layout 5th Block in Ward no 09 (Vidyaranyapura)

Agency : Sri. Madhusudhan.R, #830, 5th Block, BEL Layout, Vidyaranyapura, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/167/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-05-22

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 27-05-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	25	25	2.5	97.5	90-100	90-100	90-100	95-100
3	2.36 mm	48	73	7.3	92.7	60-95	75-100	85-100	95-100
4	1.18 mm	241	314	31.4	68.6	30-70	55-90	75-100	90-100
5	600 micron	201	515	51.5	48.5	15-34	35-59	60-79	80-100
6	300 micron	199	714	71.4	28.6	5-20	8-30	12-40	15-50
7	150 micron	191	905	90.5	9.5	0-10	0-10	0-10	0-15
8	Pan	95	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-03-27-27** **Date: 30-05-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.32	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	9.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-03-27-27** **Date: 15/06/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements and Maintenance of Parks in HMT Layout 5th Block in Ward no 09 (Vidyaranyapura)

Agency : Sri. Madhusudhan.R, #830, 5th Block, BEL Layout, Vidyaranyapura, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/167/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-06-22

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	08/06/2022	15/06/2022	150.24 X 150.28 X 149.57	22578	8.186	411.8	18.2	18.4
2	RCC	M20	08/06/2022	15/06/2022	151.72 X 150.13 X 149.42	22779	8.328	427.9	18.8	
3	RCC	M20	08/06/2022	15/06/2022	149.59 X 150.54 X 150.88	22519	8.375	411.6	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-03-27-27** **Date: 15/06/2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Maintenance of Parks in HMT Layout 5th Block in Ward no 09 (Vidyaranyapura)
Agency	:	Sri. Madhusudhan.R, #830, 5th Block, BEL Layout, Vidyaranyapura, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/167/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-06-22
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	08/06/2022	15/06/2022	150.16 X 151.66 X 150.84	22775	8.856	421.4	18.5	18.3
2	RCC	M20	08/06/2022	15/06/2022	150.52 X 151.21 X 149.54	22760	8.298	412.8	18.1	
3	RCC	M20	08/06/2022	15/06/2022	150.51 X 149.84 X 149.17	22553	8.664	411.8	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 15/06/2022

Lab ID	:	**CP-2023-03-27-27**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Maintenance of Parks in HMT Layout 5th Block in Ward no 09 (Vidyaranyapura)
Agency	:	Sri. Madhusudhan.R, #830, 5th Block, BEL Layout, Vidyaranyapura, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/167/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-06-22
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	08/06/2022	15/06/2022	151.34 X 149.36 X 150.03	22605	8.685	416.3	18.4	18.6
2	RCC	M20	08/06/2022	15/06/2022	149.91 X 149.54 X 149.79	22418	8.364	418.2	18.7	
3	RCC	M20	08/06/2022	15/06/2022	149.44 X 149.35 X 151.41	22319	8.735	418.4	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 15/06/2022

Lab ID	:	**CP-2023-03-27-27**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Maintenance of Parks in HMT Layout 5th Block in Ward no 09 (Vidyaranyapura)
Agency	:	Sri. Madhusudhan.R, #830, 5th Block, BEL Layout, Vidyaranyapura, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/167/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-06-22
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	RCC	M20	08/06/2022	15/06/2022	151.55 X 149.57 X 151.14	22666	8.773	430.1	19.0	18.8
2	RCC	M20	08/06/2022	15/06/2022	151.35 X 149.57 X 149.05	22638	8.842	427.0	18.9	
3	RCC	M20	08/06/2022	15/06/2022	149.42 X 151.92 X 149.35	22699	8.830	420.7	18.5	

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TEST RESULTES FOR MS BLOCK PIPE

Lab ID	:	**CP-2023-03-27-27** **Date: 01-06-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	Improvements and Maintenance of Parks in HMT Layout 5th Block in Ward no 09 (Vidyaranyapura)
Project Name	:	Sri. Madhusudhan.R, #830, 5th Block, BEL Layout, Vidyaranyapura, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/167/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-05-22
Type of Sample	:	M.S Block Pipe
Reference to BIS codes	:	IS:1608-2005(RA 2017), IS 1599-2019.
Date of test	:	30-05-22

TESTS RESULTS FOR MS BLOCK PIPE 38MM DIA, 14 GAUGE

Sl. No	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Yeild Stress (N/mm2)	299	250N/mm^2	Satisfactory
2	Tensile Strength (N/mm2)	509	410N/mm^2	Satisfactory
3	Elongation Percentage (%)	24	Min 23%	Satisfactory

* The results obtained are satisfactory as per standard requirements.

Note:
The results pertain to the samples received and tested.
All information furnished by Agency/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST RESULTES FOR MS RECTANGULAR POLE

Lab ID : **CP-2023-03-27-27** **Date: 01-06-22**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements and Maintenance of Parks in HMT Layout 5th Block in Ward no 09 (Vidyaranyapura)

Agency : Sri. Madhusudhan.R, #830, 5th Block, BEL Layout, Vidyaranyapura, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/167/2020-21

Sourse of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-05-22

Type of Sample : M.S Rectangular Pole(65X65X6)mm

Reference to BIS codes : IS:1608-2005(RA 2017), IS 1599-2019.

Date of test : 30-05-22

TESTS RESULTS FOR M.S RECTANGULAR POLES MADE OUT OF 2 EQUAL ANGLES OF 65 X 65 X 6 MM WELDED TOGETHER

SL.NO	Description	Result	Required as per IS Code 2062:2011	Remarks
1	Weight/Meter (Kg /m)	5.81	5.8 Kg/m	Satisfactory
2	Yeild stress (N/mm2)	278	250N/mm^2	Satisfactory
3	Tensile Strength (N/mm2)	485	410N/mm^2	Satisfactory
4	Elongation Percentage (%)	23.5	Min23%	Satisfactory
5	Bend Test	Satisfactory	Should not Crack or fracture	Satisfactory

* The results obtained are satisfactory as per standard requirements.

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

TEST RESULTS FOR CHAIN LINK FENCING

Lab ID	:	**CP-2023-03-27-27** **Date: 01-06-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Maintenance of Parks in HMT Layout 5th Block in Ward no 09 (Vidyaranyapura)
Agency	:	Sri. Madhusudhan.R, #830, 5th Block, BEL Layout, Vidyaranyapura, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/167/2020-21
Sourse of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-05-22
Type of Sample	:	Chain Link Fencing
Reference to BIS codes	:	IS 2062:2011 (RA 2021)
Date of test	:	30-05-22

TESTS RESULT FOR WIRE MESH		
SL.NO	**Description**	**Result**
1	**Average Thickness in mm**	4.04
2	**Dia of linewire in mm**	3.14
3	**Mesh size in mm**	50.01
4	**Nominaldia of meshwire in mm**	2.52
5	**Bend Test**	Satisfactory

* The results obtained are satisfactory as per standard requirements.

Note:

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CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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